LitesF200

Owners ‘s & Service manual

Read this manual totally and carefully follow all the instructions contained. File this manual for future use.

It is essential to read all the information contained to ensure installation, service and full operation of the LitesF200
All operations must be accomplished, handled and carried out by qualified personnel only. Not complying with given notice will void warranty and will free manufufacturer from any liability/responsability

http://www.ilites.eu

Unpacking

Unpack the carton and gently remove LitesF200 from the box. Ensure LitesF200 received is integer from origin in all its components.
In the event the LitesF200 shows any damage, do not use it and contact immediately your transporter as well as your seller.

Items in the carton consist of:

- LitesF200 luminaire
- Colour frame
- Blue Neutrik PowerCon connector
- This owner's and service manual

Safety information for the use of the LitesF200 as well as its periodical maintenance"

- LitesF200 is for professional use only and NEVER for domestic use therefore refrain from this latter utilisation.
- Users must scrupulously comply with information that follows, any other use in contrast will void warranty and will free the manufacturer of any sort of responsibility and liability.
- Never use LitesF200 on any flammable surfaces.
- Minimum distance from any flammable source is of 0.25m.
- Minimum throw distance from illuminated surface: 0.5m.
- Installation of the unit(s) must be secured with adequate clamps, safety cords, nuts and bolts to bear the weight of the whole unit(s)
- Always Power LitesF200 to safety circuit breakers. LitesF200 must NOTand CAN NOT be operated via Phase Control Dimmer.
- Install LitesF200 in ventilated ambient which temperature must not trespass 35°C
- Some outer parts of the LitesF200 can reach temperatures of up to 60C° when in operation.
- LitesF200 must be fitted with protection shields (Lenses)
- On no account, directly or indirectly, LED must be touched
- Always disconnet power, (always double check that power is off) before any Service/Operation of the unit.
- LitesF200 is rated Class I.
- Earth connection is MANDATORY!

An essential and periodically throughout cleaning of the LitesF200 is recommended. This practice avoids that layers of dust and other impurities jeopardise and reduce the correct operation of the unit. Lenses must be cleaned to remove layers of dust that may impede and or reduce the passage of the light through the lenses. The correct and periodically maintenance keeps also fans and vents clean to keep the LitesF200 in its best performance conditions. Never touch the Yellow core of the LED

both directly or indirectly nor use solvents that can damage the LED irremediably. Protection shields if battered, must be replaced with new ones (Lenses)

CE APPROVALS

The LitesF200 meets EMC 89/336/CEE, 92/31/CEE, BT72/23/CEE, 98/68/CEE requirements.
The LitesF200 complies with EN50419 (Rohs) and 2002/96/EC (WEEE) norms.

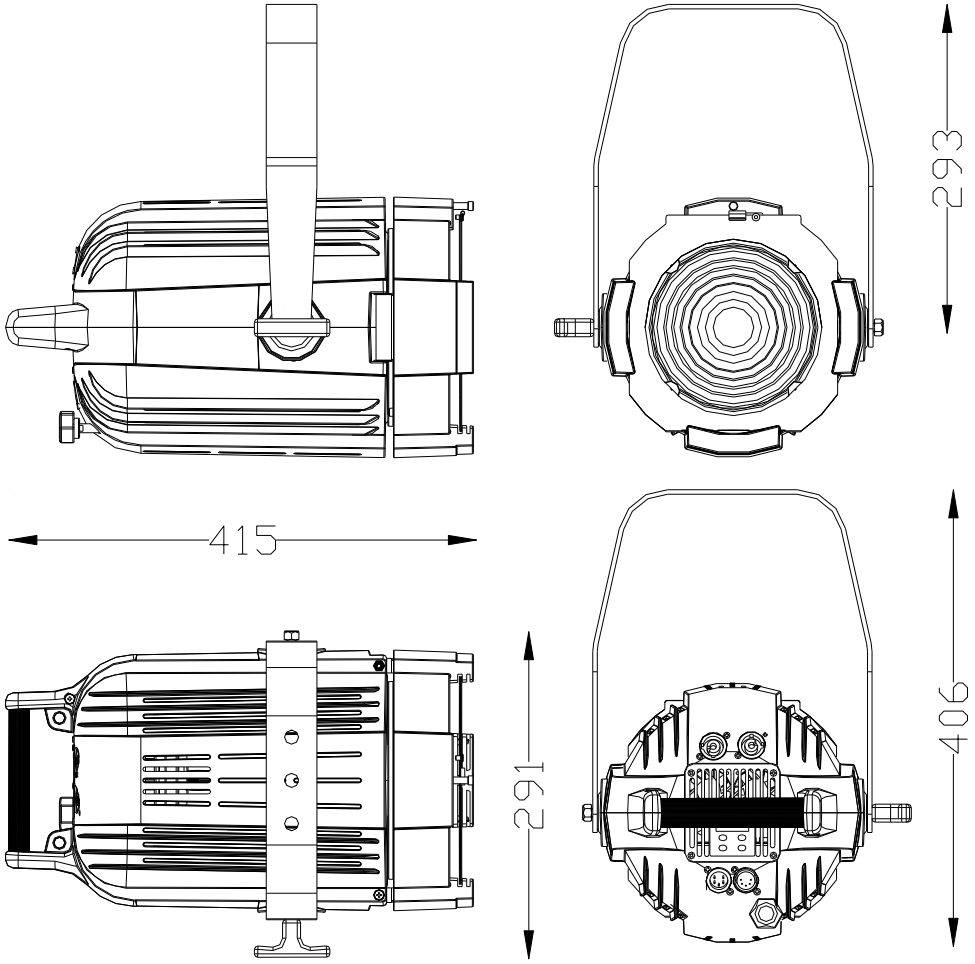
WARRANTY
A 12-month warranty is granted on the LitesF200 from its purchase's date. Warranty covers fabrication defects only, unit will not be replaced but will be 100% fixed. Warranty is immediately voided if the LitesF200 has not been handled by qualified personnel. Any improper and unauthorised use, such modification(s) or misapplication of the unit will also void the warranty of the product(s). Silver colour label showing technical data and serial number, if removed or if data are impaired to render details illegible, will immediately void the warranty.

Technical specifications

Power Supply:	100/240V~ 50/60Hz (autosetting)
Maximum power consumption	200W (Citizen CLL050-CLL052) cos ø 0,98
Maximum power consumption	140W (Bridgelux BXRA/Vero) cos ø 0,98
Stand-by power consumption	5W

LED Colour temperatues and CRI : ASK INFORMATION at info@ilites.eu
Fresnel Lens: Ø 150mm

Colour frame dimensions: 195x185 mm (the use of standard 185x185mm colour frame is totally acccettable)
Aluminium die-caste body to maximize heat dissipation
Operating temperature range: -15°C + 35° C
Maxium temperature on the LitesF200 +60°C
Weight of the unit: Kg 6,9
Worm-gear beam adjustment on standard Lites200F/ Automatic zoom on LitesF200Zoom
Rear handle for good grip of unit ; side-lock on mounting yoke to adjust and set unit to position.
Beam angle: 18°-60°
Working position: +90°/-90° on vertical axe
Protection rating: IP 20
DMX 512 , RDM, Protocols (wireless on request)
Neutrik powercon IN & OUT connectors
Neutrik XRL5 IN & OUT signal connectors
4-digit display
Manual operation via 4-digit display
Idle fan mode for totally silent use of the unit.
Adjustable LED frequency
Selection of two LED dimming curves
Comply with CE
Dimensions: see figure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Lites200F installation

Lirtes200F is delivered with a robust yoke which hosts 3 x 12 mm mounting holes.
The use of an adequate G-clamp to sustain at least twice the weight of the Lites200F (Lites200F weighs 7,9 kg) and/or M10 screw is mandatory. The use of safety chain(s) to sustain twice the weight of the Lites200F is also mandatory, the safety chain adds more protections to users and third-parties. Eye-lid for the safety chain is provided on the LitesF200. (see Fig)
The Lites200F yoke revolves on 360° on the projector's axis. Lites200F can be installed +-90° on the vertical axis. (see Fig.). Best Lites200F's perfomrances are achiieved if unit is installed as shown in the illustrations that follows. (never install LitesF200 upsidedown, illustrations that folllows show installation positions that must be avoided) . Incorrect installation(s) can, immediately or in short/long terms, jeopardise the correct operaton of the LitesF200. Incorrect installations may voide the warranty of the unit.

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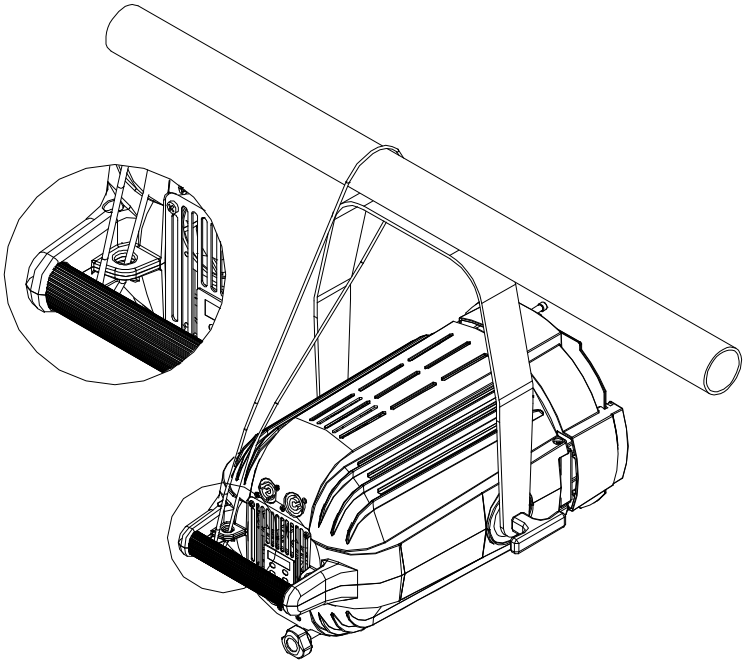
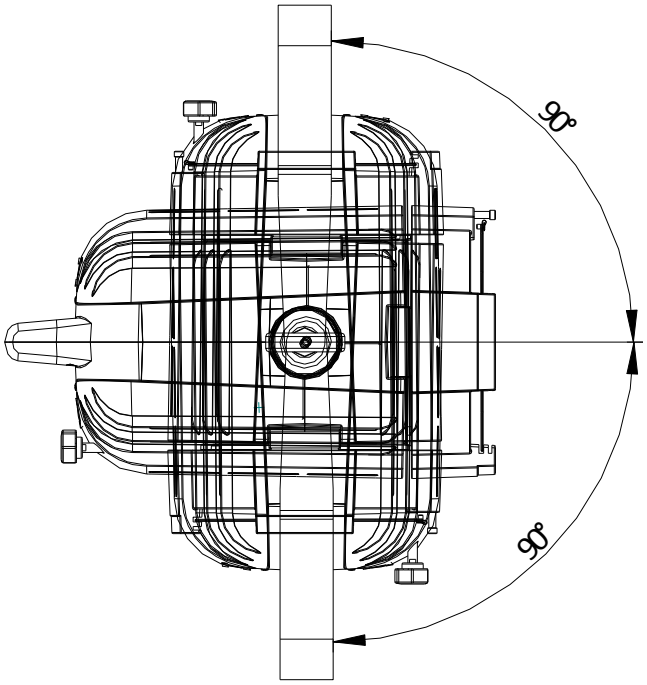
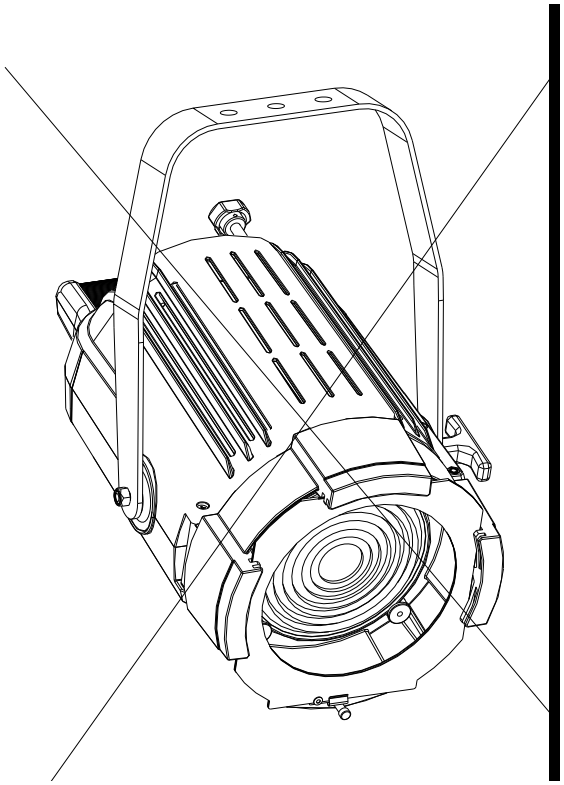
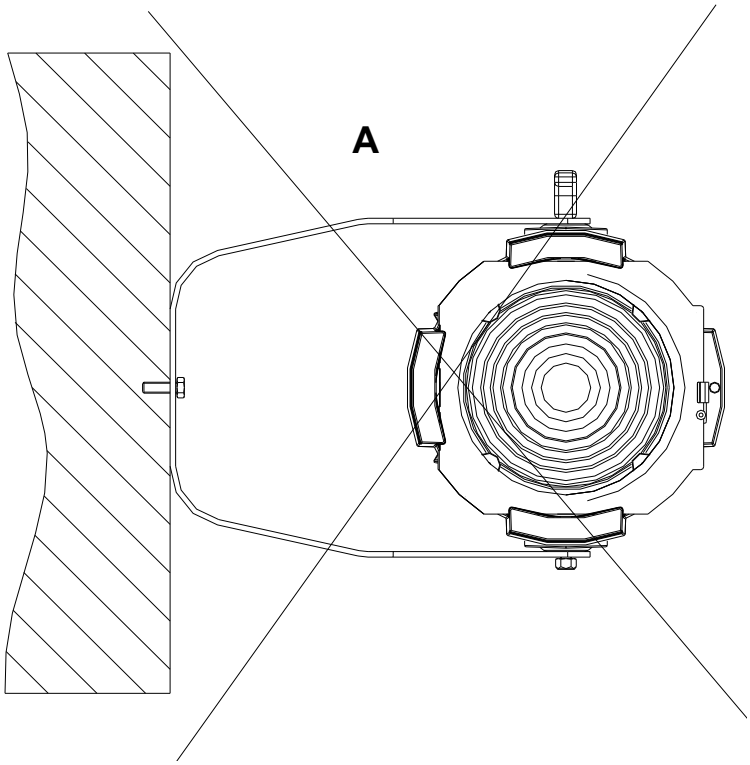
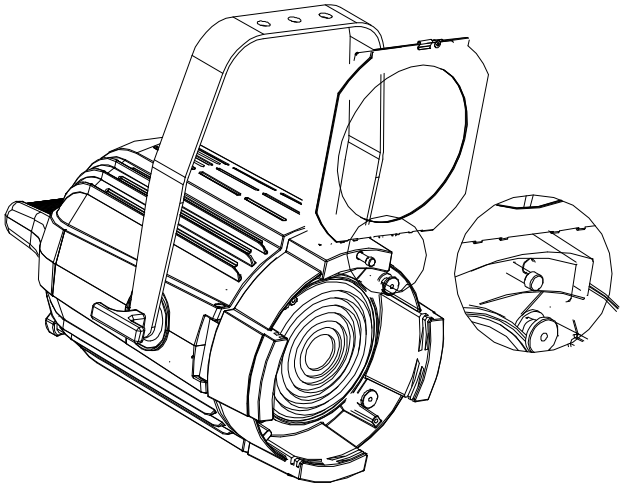




AVOID INCORRECT INSTALLATIONS AS ILLUSTRATED





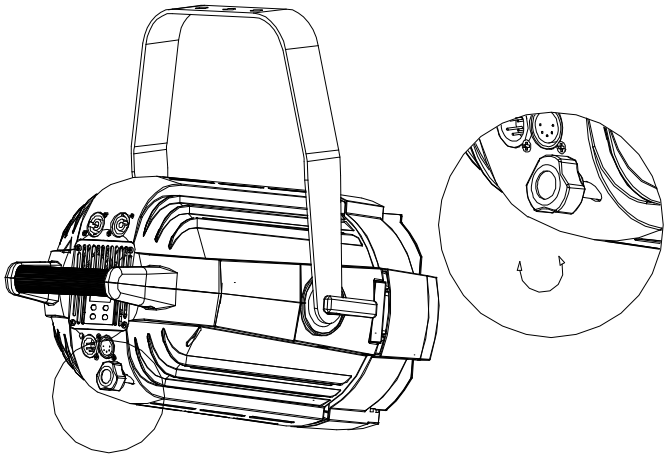


Installations of the accessories

LitesF200 is delvered with a standard 195x185mm colour frame (standard colour frame 185x185 can als be used). The LED source used on LitesF200 allows the use of colour filters that cannot be used with high wattage tungstene lamps which would impair colour filters. Optional and standard 185x185 mm 4-leaf-barndoor can also be installed in the provided gates. Ensure that accessories when installed on the LitesF200 are securely fitted in the gates and that are triggered and secured by the spring-lock provided. (see figure)

Beam adustment

Lites200F can revolve +-90° upwards and +- 90° donwwards on the axis of the luminaire. When correct position is set to position, secure it by tightneing the provided side knob. Beam adjusment is achieved via rear Helicoidal screw. Turn clockwise to narrow beam, conversely beam widens.



Connection to mains

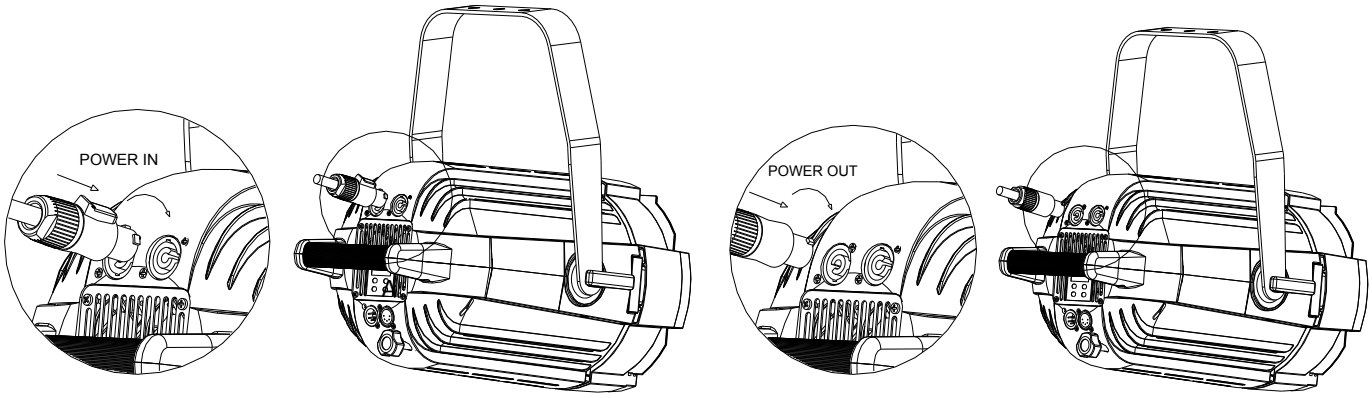
WARNING ! Installation(s) must be accomplished, handled and carried out by qualified personnel only and must comply with all norms in force in the installation's country

LitesF200 is supplied with a free Blue Neutrik PowerCon plug that must be wired using a 3x1.5mm² lead , additional specifications include:

- Operating Voltage: 300/500V
- Test Voltage: 2KV
- Operating Temperature: -10°C / +100°C

Connect blue wire to N terminal, brown wire to L terminal and Yellow/Green wire to earth terminal. (see also illustration fig) Ensure connections to safety circuit breaker at all times. Daisy chain of up to maximum 8 units if connected to 230VAC. Daisy chain of up to maximum 4 units when connected to 110VAC. Maximum daisy chain length: 25m.

WARNING: LitesF200 CANNOT be powered by using an angle phase dimmer pack

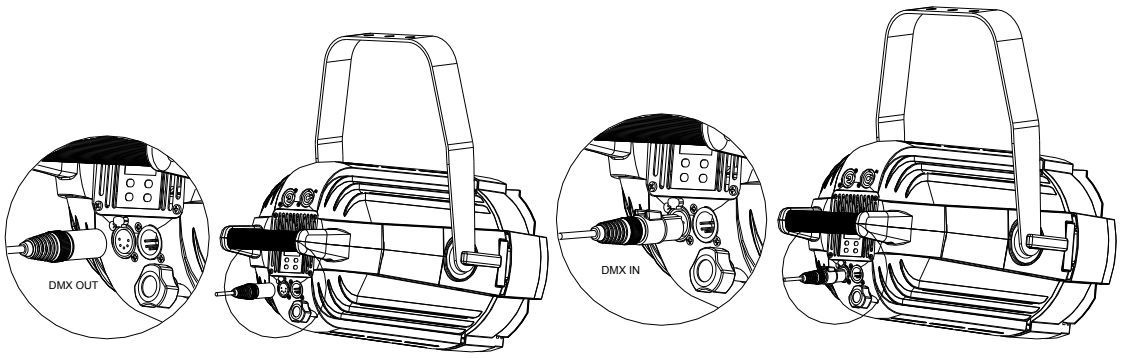


Signal Control Connection

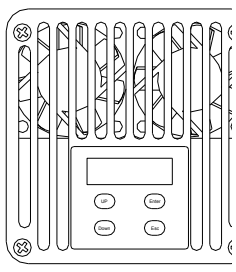
LitesF200 can be operated via either DMX512A and or RDM ready . For dasy chain connection use a -2 x 0,5 mm² **size lead wire plus shield. Connect Pin 1 to ground, 2= data – while Pin 3 = data +. Pins 4 & 5 are not connected. Ensure that DMX wires and shield do not interfere,nor touch each other as well as they must not touch/interfere with the body of the unit . (DMX connectors are not provided)**

Important note: when DMX is available a red dot will illuminate on the left hand of the display.When red dot is off no DMX signal is available.
WARNING ! Before powering LitesF200 ensure that all installation(s) procedure(s) have(s) been properly set and accomplished.

XLR5 connection	
Leads	Description
1	GND
2	DMX-
3	DMX+
4	NC
5	NC



Projector mode settings



When LitesF200 is powered, setup-display will show the software release version The UP, DOWN, ENTER and ESC buttons will allow the operations of the LitesF200 menu. UP and DOWN buttons allow to scan menu options, ENTER button allow to select. The ESC button is to retun to the previous menu or to quit the previous setting.

Menu items

Displayed message	Allowed or displayed values	Mode
Addr	001..510	DMX address : as of 1 to 510
Mode	1 ch 2 ch 3 ch 4 ch 5 ch	DMX Operating mode (see next page)
Man	0..255	Manual light output adjustment (This is possible even if no DMX is present). Adjusted value will be stored on the internal permanent memory
drUt	..°C	Shows driver operating temperature
LEdt	..°C	Show led operating temperature
PUM	0..100%	Shows current led power (0-100%)
SMOO	FAST MED SLOW	DMX data Speed adjustment
GAMM	LInE qUAd	Dimmer profile selection: - LinE for linear dimming regulation - qUAd for tungsten lamp emulation)
booS	Off on	Boost selection: off = maximum led power at 90% on = maximum led power at 100%
PoS	AA VV	I Display orientation selection: AA = normal VV = inverted
StbY	Off on	Standby display activity: off = display always switched on on = display switched off after few seconds of buttons inactivity (only the right side dot will be lighted to indicate DMX availability)
dEF	Off on	ON Will restore the default factory values
TiML	..h ..	Shows LED life
TiMU	..h ..	Shows HPLed life
SoFt		Shows Software version

DMX Operating Modes (Mode)

LitesF200 provides with different DMX operating modes ensuring the ideal use of the DMX universe
Shutter/strobo, 8/16 bit dimmer, fan speed and LED frequence are all adjustable

Mode a 1ch

Ch	functon	DMX Values	
1	dimmer	0..255	Light output: 0=Off, 255=Maximum Power

mode a 2ch

Ch	function	DMX Values	
1	shutter	0-9	off
		10..255	Strobe effect from slow to fast
2	dimmer	0..255	Light output: 0=Off, 255=Maximum Power

mode a 3ch

Ch	functon	DMX Values	
1	shutter	0-9	off
		10..255	Strobe effect from slow to fast
2	dimmer	0..255	Light output: 0=Off, 255=Maximum Power
3	Fan speed	0..24	Fans off
		24..255	Fan speed from slow to fast

mode a 4ch

Ch	Function	DMX Values	
1	shutter	0..9	off
		10..255	Strobe effect from slow to fast
2	dimmer	0..255	Light output: 0=Off, 255=Maximum Power
3	Fans	0..24	Fans off
		24..255	Fan adjustement from minium to max value
4	LED Frequency Modulation	0..24	PWM Frequency 5,1KHz
		25..49	PWM Frequency 5,2KHz
		50..74	PWM Frequency 5,3KHz
		75..99	PWM Frequency 5,4KHz
		100..124	PWM Frequency 5,5KHz
		125..149	PWM Frequency 5,6KHz
		150..174	PWM Frequency 5,7KHz
		175..199	PWM Frequency 5,8KHz
		200..224	PWM Frequency 6KHz
		225..255	PWM Frequency 610Hz

mode a 5ch

Ch	function	DMX Values

1	shutter	0..9	off
		10..255	Strobe effect from slow to fast
2	dimmer	0..255	Light output: 0=Off, 255=Maximum Power
3	Fine Dimmer	0..255	0..255 fine dimmer adjustment
4	Fans	0..24	Fans off
		24..255	Fan adjustement from minium to max value
5	LED Frequency Modulation (flickering)	0..24	PWM Frequency 5,1KHz
		25..49	PWM Frequency 5,2KHz
		50..74	PWM Frequency 5,3KHz
		75..99	PWM Frequency 5,4KHz
		100..124	PWM Frequency 5,5KHz
		125..149	PWM Frequency 5,6KHz
		150..174	PWM Frequency 5,7KHz
		175..199	PWM Frequency 5,8KHz
		200..224	PWM Frequency 6KHz
		225..255	PWM Frequency 610Hz

Error messages

In case of malfunction, the following messages may be shown:

LED ERROR : sympthon of a possible short-circuit on LED driver.
TEMPERATURE ERRor: sympthon that sensors have measured temperature below -15°C or failure on NTC- in such event LED will switch to off mode. Should any of the above given messages occur, for precaution measures the LED will always switch to off mode. Halt the unit immediately and refrain from the use of it and promptly contact any authorized service centre.

Periodical maintenance

To ensure the correct LitesF200's operations we suggest the following periodical maintenance operations:

- Remove dust or any kind of other dirty from the fans and loop-holes to ensure the correct air flow
- Remove dust from lenses using a clean cloth. This maintenace will ensure the maximum light efficiency
- Replace damaged protection screens and lenses when necessary
- Always handle LitesF200 gently and with care, do not drop, do not shake do not cause shocks to the unit as it could damage it irremediably.

Do not touch nor clean the LED as well as the yellow area around it with solvents

Device disposal information

At the end of its life, LitesF200 must be disposed to an appropriate electrical and electronic equipment waste collection centre. Eco-friendly disposal, helps to avoid possible negative impact on the environment and human health and promotes the reuse and/or recycling of the materials making up the product. Illegal disposal involves administrative sanctions provided by laws enacted.

Manufacture declines any sort of personal/corporate responsibility/liability for damages caused by the inadequate use of the product as well as if unqualified personnel have handled the product. Not complying with security norms/periodical maintenance as

expressed in the owner's/service manual will also totally free personal/corporate responsibility/liability**.**

Text, wordings, drawings, specifications, modifications and other changes of this manual may apply anytime without notice. The specifications are not binding.

Lites F 200 White 04/11/2013

rev.01